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### Zuschläge

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- Gefahrgutzuschlag
- Expressversand

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# Calponin 3 (m): 293T Lysate: sc-118971

## BACKGROUND

Calponin regulates smooth muscle cell contraction and is a marker of smooth muscle cell differentiation. Calponin, an Actin- and Tropomyosin-binding protein, is characterized as an inhibitory factor of smooth-muscle actomyosin activity. Calponin is implicated in the regulation of smooth muscle contraction through its interaction with F-Actin and inhibition of the Actin-activated MgATPase activity of phosphorylated Myosin. Both properties are lost following phosphorylation (primarily at Serine 175) by protein kinase C or calmodulin-dependent protein kinase II. The three forms of Calponin, Calponin 1 (basic Calponin), Calponin 2 (neutral Calponin) and Calponin 3 (acidic Calponin) are found in smooth muscle tissue. Additionally, Calponin 2 is found in heart muscle tissue and Calponin 3 is found in the brain.

## REFERENCES

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6. Yoshimoto, R., Hori, M., Ozaki, H. and Karaki, H. 2000. Proteolysis of acidic Calponin by  $\mu$ -Calpain. *J. Biochem.* 128: 1045-1049.

## CHROMOSOMAL LOCATION

Genetic locus: Cnn3 (mouse) mapping to 3 G1.

## PRODUCT

Calponin 3 (m): 293T Lysate represents a lysate of mouse Calponin 3 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.

## APPLICATIONS

Calponin 3 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Calponin 3 antibodies. Recommended use: 10-20  $\mu$ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.